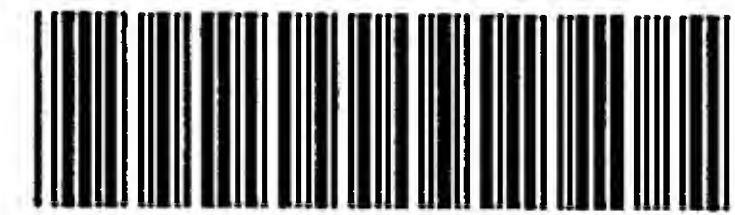


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/582,413  
Source: IFWP  
Date Processed by STIC: 06/22/2006

***ENTERED***



IFWP

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/582,413**

**DATE: 06/22/2006**  
**TIME: 12:52:10**

**Input Set : A:\14875-164US1.txt**  
**Output Set: N:\CRF4\06222006\J582413.raw**

3 <110> APPLICANT: Ohtomo, Toshihiko  
 4 Yabuta, Naohiro  
 5 Tsunoda, Hiroyuki  
 6 Tsuchiya, Masayuki  
 8 <120> TITLE OF INVENTION: Methods for enhancing antibody activity  
 10 <130> FILE REFERENCE: 14875-164US1  
**C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/582,413**  
**C--> 12 <141> CURRENT FILING DATE: 2006-06-09**  
 12 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/018493  
 13 <151> PRIOR FILING DATE: 2004-12-10  
 15 <150> PRIOR APPLICATION NUMBER: JP 2003-415760  
 16 <151> PRIOR FILING DATE: 2003-12-12  
 18 <160> NUMBER OF SEQ ID NOS: 28  
 20 <170> SOFTWARE: PatentIn version 3.1  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 1924  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Macaca fascicularis  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: CDS  
 29 <222> LOCATION: (11)..(1918)  
 30 <223> OTHER INFORMATION:  
**W--> 32 <400> 1**  
 33 gaattccacc atg ccc tcc tgg gcc ctc ttc atg gtc acc tcc tgc ctc 49  
 34 Met Pro Ser Trp Ala Leu Phe Met Val Thr Ser Cys Leu  
 35 1 5 10  
 37 ctc ctg gcc cct caa aac ctg gcc caa gtc agc agc caa gat gtc tcc 97  
 38 Leu Leu Ala Pro Gln Asn Leu Ala Gln Val Ser Ser Gln Asp Val Ser  
 39 15 20 25  
 41 ttg ctg gcc tcg gac tca gag ccc ctg aag tgt ttc tcc cga aca ttt 145  
 42 Leu Leu Ala Ser Asp Ser Glu Pro Leu Lys Cys Phe Ser Arg Thr Phe  
 43 30 35 40 45  
 45 gag gac ctc act tgc ttc tgg gat gag gaa gag gca gca ccc agt ggg 193  
 46 Glu Asp Leu Thr Cys Phe Trp Asp Glu Glu Ala Ala Pro Ser Gly  
 47 50 55 60  
 49 aca tac cag ctg ctg tat gcc tac ccg ggg gag aag ccc cgt gcc tgc 241  
 50 Thr Tyr Gln Leu Leu Tyr Ala Tyr Pro Gly Glu Lys Pro Arg Ala Cys  
 51 65 70 75  
 53 ccc ctg agt tct cag agc gtg ccc cgc ttt gga acc cga tac gtg tgc 289  
 54 Pro Leu Ser Ser Gln Ser Val Pro Arg Phe Gly Thr Arg Tyr Val Cys  
 55 80 85 90  
 57 cag ttt cca gcc cag gaa gaa gtg cgt ctc ttc tct ccg ctg cac ctc 337  
 58 Gln Phe Pro Ala Gln Glu Glu Val Arg Leu Phe Ser Pro Leu His Leu

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/582,413**

DATE: 06/22/2006  
TIME: 12:52:10

Input Set : A:\14875-164US1.txt  
Output Set: N:\CRF4\06222006\J582413.raw

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/582,413

DATE: 06/22/2006  
TIME: 12:52:10

Input Set : A:\14875-164US1.txt  
Output Set: N:\CRF4\06222006\J582413.raw

125	gtg gag gtg acc aca gcc ctg ggt gct gtt cac agt tac ctg ggc tcc	1153
126	Val Glu Val Thr Thr Ala Leu Gly Ala Val His Ser Tyr Leu Gly Ser	
127	370 375 380	
129	cct ttc tgg atc cac cag gct gtg cgc ctc ccc acc cca aac ttg cac	1201
130	Pro Phe Trp Ile His Gln Ala Val Arg Leu Pro Thr Pro Asn Leu His	
131	385 390 395	
133	tgg agg gag atc tcc agc ggg cat ctg gaa ttg gag tgg cag cac cca	1249
134	Trp Arg Glu Ile Ser Ser Gly His Leu Glu Leu Glu Trp Gln His Pro	
135	400 405 410	
137	tca tcc tgg gca gcc caa gag acc tgc tat caa ctc cga tac aca gga	1297
138	Ser Ser Trp Ala Ala Gln Glu Thr Cys Tyr Gln Leu Arg Tyr Thr Gly	
139	415 420 425	
141	gaa ggc cat cag gac tgg aag gtg ctg gag ccg cct ctc ggg gcc cga	1345
142	Glu Gly His Gln Asp Trp Lys Val Leu Glu Pro Pro Leu Gly Ala Arg	
143	430 435 440 445	
145	gga ggg acc ctg gag ctg cgc ccg cga tct cgc tac cgt tta cag ctg	1393
146	Gly Gly Thr Leu Glu Leu Arg Pro Arg Ser Arg Tyr Arg Leu Gln Leu	
147	450 455 460	
149	cgc gcc agg ctc aat ggc ccc acc tac caa ggt ccc tgg agc tcg tgg	1441
150	Arg Ala Arg Leu Asn Gly Pro Thr Tyr Gln Gly Pro Trp Ser Ser Trp	
151	465 470 475	
153	tcg gac cca gct agg gtg gag acc gcc acc gag acc gcc tgg att tcc	1489
154	Ser Asp Pro Ala Arg Val Glu Thr Ala Thr Glu Thr Ala Trp Ile Ser	
155	480 485 490	
157	ttg gtg acc gct ctg ctg cta gtg ctg ggc ctc agc gcc gtc ctg ggc	1537
158	Leu Val Thr Ala Leu Leu Val Leu Gly Leu Ser Ala Val Leu Gly	
159	495 500 505	
161	ctg ctg ctg ctg agg tgg cag ttt cct gca cac tac agg aga ctg agg	1585
162	Leu Leu Leu Leu Arg Trp Gln Phe Pro Ala His Tyr Arg Arg Leu Arg	
163	510 515 520 525	
165	cat gcc ctg tgg ccc tca ctt cca gat ctg cac cga gtc cta ggc cag	1633
166	His Ala Leu Trp Pro Ser Leu Pro Asp Leu His Arg Val Leu Gly Gln	
167	530 535 540	
169	tac ctt agg gac act gca gcc ctg agt ccg ccc aag gcc aca gtc tca	1681
170	Tyr Leu Arg Asp Thr Ala Ala Leu Ser Pro Pro Lys Ala Thr Val Ser	
171	545 550 555	
173	gat acc tgt gaa gaa gtg gaa ccc agc ctc ctt gaa atc ctc ccc aag	1729
174	Asp Thr Cys Glu Glu Val Glu Pro Ser Leu Leu Glu Ile Leu Pro Lys	
175	560 565 570	
177	tcc tca gag agg act cct ttg ccc ctg tgt tcc tcc cag tcc cag atg	1777
178	Ser Ser Glu Arg Thr Pro Leu Pro Leu Cys Ser Ser Gln Ser Gln Met	
179	575 580 585	
181	gac tac cga aga ttg cag cct tct tgc ctg ggg acc atg ccc ctg tct	1825
182	Asp Tyr Arg Arg Leu Gln Pro Ser Cys Leu Gly Thr Met Pro Leu Ser	
183	590 595 600 605	
185	gtg tgc cca ccc atg gct gag tca ggg tcc tgc tgt acc acc cac att	1873
186	Val Cys Pro Pro Met Ala Glu Ser Gly Ser Cys Cys Thr Thr His Ile	
187	610 615 620	
189	gcc aac cat tcc tac cta cca cta agc tat tgg cag cag cct tga	1918

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/582,413

DATE: 06/22/2006  
TIME: 12:52:10

Input Set : A:\14875-164US1.txt  
Output Set: N:\CRF4\06222006\J582413.raw

190 Ala Asn His Ser Tyr Leu Pro Leu Ser Tyr Trp Gln Gln Pro  
191 625 630 635  
193 gtcgac 1924  
195 <210> SEQ ID NO: 2  
196 <211> LENGTH: 635  
197 <212> TYPE: PRT  
198 <213> ORGANISM: Macaca fascicularis  
200 <400> SEQUENCE: 2  
201 Met Pro Ser Trp Ala Leu Phe Met Val Thr Ser Cys Leu Leu Leu Ala  
202 1 5 10 15  
204 Pro Gln Asn Leu Ala Gln Val Ser Ser Gln Asp Val Ser Leu Leu Ala  
205 20 25 30  
207 Ser Asp Ser Glu Pro Leu Lys Cys Phe Ser Arg Thr Phe Glu Asp Leu  
208 35 40 45  
210 Thr Cys Phe Trp Asp Glu Glu Ala Ala Pro Ser Gly Thr Tyr Gln  
211 50 55 60  
213 Leu Leu Tyr Ala Tyr Pro Gly Glu Lys Pro Arg Ala Cys Pro Leu Ser  
214 65 70 75 80  
216 Ser Gln Ser Val Pro Arg Phe Gly Thr Arg Tyr Val Cys Gln Phe Pro  
217 85 90 95  
219 Ala Gln Glu Glu Val Arg Leu Phe Ser Pro Leu His Leu Trp Val Lys  
220 100 105 110  
222 Asn Val Phe Leu Asn Gln Thr Gln Ile Gln Arg Val Leu Phe Val Asp  
223 115 120 125  
225 Ser Val Gly Leu Pro Ala Pro Pro Ser Ile Ile Lys Ala Met Gly Gly  
226 130 135 140  
228 Ser Gln Pro Gly Glu Leu Gln Ile Ser Trp Glu Ala Pro Ala Pro Glu  
229 145 150 155 160  
231 Ile Ser Asp Phe Leu Arg Tyr Glu Leu Arg Tyr Gly Pro Lys Asp Leu  
232 165 170 175  
234 Lys Asn Ser Thr Gly Pro Thr Val Ile Gln Leu Ile Ala Thr Glu Thr  
235 180 185 190  
237 Cys Cys Pro Ala Leu Gln Arg Pro His Ser Ala Ser Ala Leu Asp Gln  
238 195 200 205  
240 Ser Pro Cys Ala Gln Pro Thr Met Pro Trp Gln Asp Gly Pro Lys Gln  
241 210 215 220  
243 Thr Ser Pro Thr Arg Glu Ala Ser Ala Leu Thr Ala Val Gly Gly Ser  
244 225 230 235 240  
246 Cys Leu Ile Ser Gly Leu Gln Pro Gly Asn Ser Tyr Trp Leu Gln Leu  
247 245 250 255  
249 Arg Ser Glu Pro Asp Gly Ile Ser Leu Gly Gly Ser Trp Gly Ser Trp  
250 260 265 270  
252 Ser Leu Pro Val Thr Val Asp Leu Pro Gly Asp Ala Val Ala Ile Gly  
253 275 280 285  
255 Leu Gln Cys Phe Thr Leu Asp Leu Lys Asn Val Thr Cys Gln Trp Gln  
256 290 295 300  
258 Gln Glu Asp His Ala Ser Ser Gln Gly Phe Phe Tyr His Ser Arg Ala  
259 305 310 315 320  
261 Arg Cys Cys Pro Arg Asp Arg Tyr Pro Ile Trp Glu Asp Cys Glu Glu

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/582,413

DATE: 06/22/2006  
TIME: 12:52:10

Input Set : A:\14875-164US1.txt  
Output Set: N:\CRF4\06222006\J582413.raw

262	325	330	335													
264	Glu	Glu	Lys	Thr	Asn	Pro	Gly	Leu	Gln	Thr	Pro	Gln	Phe	Ser	Arg	Cys
265				340				345							350	
267	His	Phe	Lys	Ser	Arg	Asn	Asp	Ser	Val	Ile	His	Ile	Leu	Val	Glu	Val
268								355					360		365	
270	Thr	Thr	Ala	Leu	Gly	Ala	Val	His	Ser	Tyr	Leu	Gly	Ser	Pro	Phe	Trp
271								370		375			380			
273	Ile	His	Gln	Ala	Val	Arg	Leu	Pro	Thr	Pro	Asn	Leu	His	Trp	Arg	Glu
274	385					390					395				400	
276	Ile	Ser	Ser	Gly	His	Leu	Glu	Leu	Glu	Trp	Gln	His	Pro	Ser	Ser	Trp
277						405					410				415	
279	Ala	Ala	Gln	Glu	Thr	Cys	Tyr	Gln	Leu	Arg	Tyr	Thr	Gly	Glu	Gly	His
280						420			425			430				
282	Gln	Asp	Trp	Lys	Val	Leu	Glu	Pro	Pro	Leu	Gly	Ala	Arg	Gly	Gly	Thr
283						435			440			445				
285	Leu	Glu	Leu	Arg	Pro	Arg	Ser	Arg	Tyr	Arg	Leu	Gln	Leu	Arg	Ala	Arg
286						450			455			460				
288	Leu	Asn	Gly	Pro	Thr	Tyr	Gln	Gly	Pro	Trp	Ser	Ser	Trp	Ser	Asp	Pro
289	465					470					475				480	
291	Ala	Arg	Val	Glu	Thr	Ala	Thr	Glu	Thr	Ala	Trp	Ile	Ser	Leu	Val	Thr
292						485				490				495		
294	Ala	Leu	Leu	Leu	Val	Leu	Gly	Leu	Ser	Ala	Val	Leu	Gly	Leu	Leu	Leu
295						500				505				510		
297	Leu	Arg	Trp	Gln	Phe	Pro	Ala	His	Tyr	Arg	Arg	Leu	Arg	His	Ala	Leu
298						515				520				525		
300	Trp	Pro	Ser	Leu	Pro	Asp	Leu	His	Arg	Val	Leu	Gly	Gln	Tyr	Leu	Arg
301						530			535				540			
303	Asp	Thr	Ala	Ala	Leu	Ser	Pro	Pro	Lys	Ala	Thr	Val	Ser	Asp	Thr	Cys
304	545					550					555				560	
306	Glu	Glu	Val	Glu	Pro	Ser	Leu	Leu	Glu	Ile	Leu	Pro	Lys	Ser	Ser	Glu
307						565				570				575		
309	Arg	Thr	Pro	Leu	Pro	Leu	Cys	Ser	Ser	Gln	Ser	Gln	Met	Asp	Tyr	Arg
310						580			585				590			
312	Arg	Leu	Gln	Pro	Ser	Cys	Leu	Gly	Thr	Met	Pro	Leu	Ser	Val	Cys	Pro
313						595			600				605			
315	Pro	Met	Ala	Glu	Ser	Gly	Ser	Cys	Cys	Thr	Thr	His	Ile	Ala	Asn	His
316						610			615				620			
318	Ser	Tyr	Leu	Pro	Leu	Ser	Tyr	Trp	Gln	Gln	Pro					
319	625					630					635					
321	<210>	SEQ ID NO:	3													
322	<211>	LENGTH:	24													
323	<212>	TYPE:	DNA													
324	<213>	ORGANISM:	Artificial													
326	<220>	FEATURE:														
327	<223>	OTHER INFORMATION:	an artificially synthesized sequence													
329	<400>	SEQUENCE:	3													
330	caggggccag	tggatagact	gatg													
332	<210>	SEQ ID NO:	4													24
333	<211>	LENGTH:	23													

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/582,413

DATE: 06/22/2006  
TIME: 12:52:11

Input Set : A:\14875-164US1.txt  
Output Set: N:\CRF4\06222006\J582413.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,9,10,11,12,13,14,15,16,17,18

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/10/582,413

DATE: 06/22/2006  
TIME: 12:52:11

Input Set : A:\14875-164US1.txt  
Output Set: N:\CRF4\06222006\J582413.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:32 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:30  
L:353 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:351  
L:433 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:431